Jawahar Education Society's
Institute of Technology,Management & Research,Nashik
Approved by AICTE and DTE,Goverment of Maharashtra, Affiliated to University of Pune

Department of Computer Engineering

Course Outcomes (CO)

Syllabus Pattern:-2019

Class:-TE Semester:- I

Sr. No	Subject	Course Outcomes (CO)
1	**310241: Database Management Systems**	**CO1:** Analyze and design Database Management System using ER model **CO2:** Implement database queries using database languages **CO3:** Normalize the database design using normal forms **CO4:** Apply Transaction Management concepts in real-time situations **CO5:** Use NoSQL databases for processing unstructured data **CO6:** Differentiate between Complex Data Types and analyze the use of appropriate data types
2	**310242: Theory of Computation**	**CO1**: Understand formal language, translation logic, essentials of translation, alphabets, language representation and apply it to design Finite Automata and its variants **CO2**: Construct regular expression to present regular language and understand pumping lemma forRE **CO3**: Design Context Free Grammars and learn to simplify the grammar **CO4**: Construct Pushdown Automaton model for the Context Free Language **CO5**: Design Turing Machine for the different requirements outlined by theoretical computerscience **CO6**: Understand different classes of problems, classify and analyze them and study concepts ofNP completeness
3	**310243: Systems Programming and Operating System**	**CO1:** Analyze and synthesize basic System Software and its functionality. **CO2:** Identify suitable data structures and Design & Implement various System Software **CO3:** Compare different loading schemes and analyze the performance of linker and loader **CO4:** Implement and Analyze the performance of process scheduling algorithms **CO5:** Identify the mechanism to deal with deadlock and concurrency issues **CO6:** Demonstrate memory organization and memory management policies

4	**310244: Computer Networks and Security**	**CO1:** Summarize fundamental concepts of Computer Networks, architectures, protocols andtechnologies **CO2:** Illustrate the working and functions of data link layer **CO3:** Analyze the working of different routing protocols and mechanisms **CO4:** Implement client-server applications using sockets **CO5:** Illustrate role of application layer with its protocols, client-server architectures **CO6:** Comprehend the basics of Network Security
5	**Elective I 310245(D): Software Project Management**	**CO1:** Comprehend Project Management Concepts **CO2:** Use various tools of Software Project Management **CO3:** Schedule various activities in software projects **CO4:** Track a project and manage changes **CO5:** Apply Agile Project Management **CO6:** Analyse staffing process for team building and decision making in SoftwareProjects and Management
6	**310249: Seminar and Technical Communication**	**CO1:** Analyze a latest topic of professional interest **CO2:** Enhance technical writing skills **CO3:** Identify an engineering problem, analyze it and propose a work plan to solve it **CO4:** Communicate with professional technical presentation skills

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Course Outcomes (CO)

Syllabus Pattern:-2019

Class:-TE Semester:- II

Sr. No	Subject	Course Outcomes (CO)
1	**310251: Data Science and Big Data Analytics**	**CO1:** Analyze needs and challenges for Data Science Big Data Analytics **CO2:** Apply statistics for Big Data Analytics **CO3:** Apply the lifecycle of Big Data analytics to real world problems **CO4:** Implement Big Data Analytics using Python programming **CO5:** Implement data visualization using visualization tools in Python programming **CO6:** Design and implement Big Databases using the Hadoop ecosystem
2	**310252: Web Technology**	**CO1:** Implement and analyze behavior of web pages using HTML and CSS **CO2:** Apply the client side technologies for web development **CO3:** Analyze the concepts of Servlet and JSP **CO4:** Analyze the Web services and frameworks **CO5:** Apply the server side technologies for web development **CO6:** Create the effective web applications for business functionalities using latest webdevelopment platforms
3	**310253: Artificial Intelligence**	**CO1:** Identify and apply suitable Intelligent agents for various AI applications **CO2:** Build smart system using different informed search / uninformed search or heuristicapproaches **CO3:** Identify knowledge associated and represent it by ontological engineering to plan astrategy to solve given problem **CO4:** Apply the suitable algorithms to solve AI problems **CO5:** Implement ideas underlying modern logical inference systems **CO6:** Represent complex problems with expressive yet carefully constrained language ofrepresentation
4	**Elective II 310254(D): Software Modelling and Architecture**	**CO1:** Analyze the problem statement (SRS) and choose proper design technique for designingweb-based/ desktop application **CO2:** Design and analyze an application using UML modeling as fundamental tool **CO3:** Evaluate software architectures **CO4:** Use appropriate architectural styles and software design patterns **CO5:** Apply appropriate modern tool for designing and modeling

5	**310255: Internship**	**CO1:** To demonstrate professional competence through industry internship. **CO2:** To apply knowledge gained through internships to complete academic activities in aprofessional manner. **CO3:** To choose appropriate technology and tools to solve given problem. **CO4:** To demonstrate abilities of a responsible professional and use ethical practices in day today life. **CO5:** Creating network and social circle, and developing relationships with industry people. **CO6:** To analyze various career opportunities and decide carrier goals.